



Policies driving SDGs and Circular Economy Resource-wise City of Turku

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Sustainable Turku

Resource-wise city by 2040

- No waste
- No emissions
- One-planet living

Carbon neutral area by 2029

- And Climate-positive thereof

Towards circular economy!

- *Sustainable use of natural resources, no-waste and no-emission policies drive circular solutions and SDGs*



Decisions:

City Strategy, City Council 16 April 2018

Turku Climate Plan 2029, City Council 11 June 2018



Waste Water Treatment Plant as part of Water-Food-Energy-NEXUS



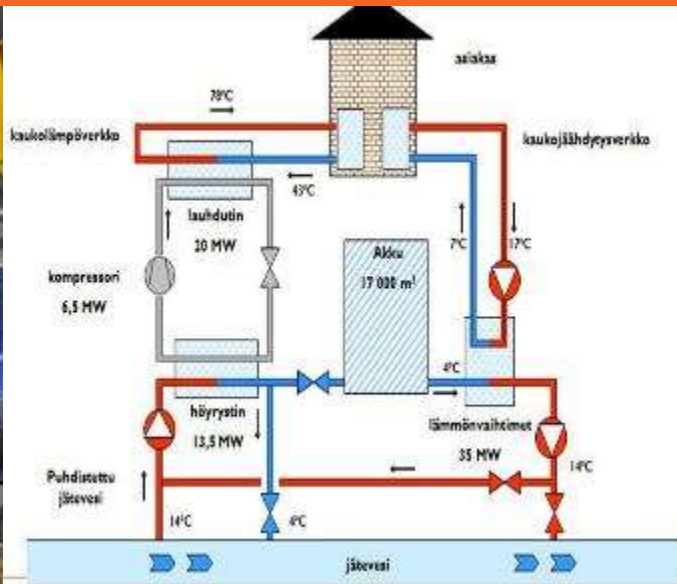
BASIC INFO

- Serves nine municipalities and treats 90 000 m³/d
- 99% of BOD, P & Solids removed and 85% of N
- Remarkable improvement in ecological condition of the Archipelago Sea
- Contributing to Climate Adaptation and Mitigation
- Located underground in urban area (since 2009)

EXAMPLE

WWTP as an energy plant

- District heating and cooling from the Waste Water



Heat pumps collect 10 x more energy than needed to run the whole WWTP.

Heat energy is sold out to warm up houses at winter and cool them at summer.

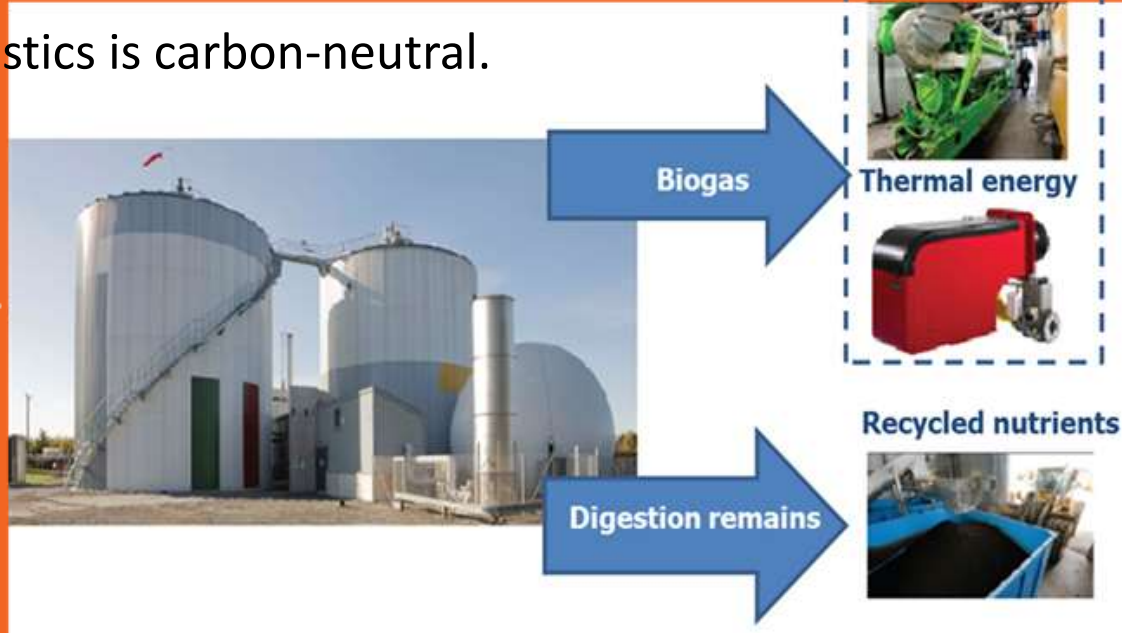
In city infra WWTP can be classified also as an energy plant, which is generating carbon free energy with high efficiency.

EXAMPLE

WWTP as source of Bioenergy and soil improvement

Sludge from the WWTP is used for biogas production, nutrient recovery and humus production → serving needs for electricity, heating, carbon-neutral transport and farming.

The whole cycle including logistics is carbon-neutral.



The
Boldest city
in Finland.